

8th Grade Science Pacing Guide

TOPICS (Suggested Number of Days)	# of Days (Total with review and assessment)	Essential Standards	Clarifying Objectives	Textbook Correlation by Chapters
Scientific Inquiry: <ul style="list-style-type: none"> •Scientific Method (3) •Observations and Inference (2) 	5	n/a	n/a	n/a
Matter: <ul style="list-style-type: none"> •Periodic table: atoms and elements (6) •compounds, and mixtures (6) •Physical vs. chemical changes (5) •Reactions (5) •Law of conservation of mass (3) 	25	8.P.1	8.P.1.1 8.P.1.2 8.P.1.3 8.P.1.4	8th grade Unit D Ch. 1-4
Energy for Food: <ul style="list-style-type: none"> •Food provides energy (7) •Healthy diet (2) •Exercise (2) •Respiration and Digestion (4) 	15	8.L.5	8.L.5.1 8.L.5.2	7th grade Unit B Ch. 2
Agents of Disease: <ul style="list-style-type: none"> •virus (2) •bacteria (2) •fungi (2) •spread, treatment, prevention (4) •epidemic vs. pandemic (5) 	15	8.L.1	8.L.1.1 8.L.1.2	8th grade Unit E Ch. 5
Biotechnology: <ul style="list-style-type: none"> •genetics (2) •careers (1) •economic benefits (3) •ethical (1) •agriculture (3) 	10	8.L.2	8.L.2.1	No textbook correlation
Ecosystems: <ul style="list-style-type: none"> •abiotic factors (5) •producers, consumers, and decomposers (4) •cooperation, competition, relationships (5) •food webs/cycling of matter (4) 	18	8.L.3	8.L.3.1 8.L.3.2 8.L.3.3	6th grade Unit D Ch. 1-2
Hydrosphere: <ul style="list-style-type: none"> •structure of hydrosphere (10) •safety/health of water supply (5) •water treatment (3) •water quality (2) •upwelling/currents/nutrients/gases (4) •marine ecosystems/estuaries/food webs (6) •marine resources (2) 	40	8.E.1	8.E.1.1 8.E.1.2 8.E.1.3 8.E.1.4	8th grade Unit C Ch. 1-4

<ul style="list-style-type: none"> •deep ocean technology (3) •water stewardship (3) •monitoring the hydrosphere (2) 				
Earth History: <ul style="list-style-type: none"> •relative vs. absolute dating (4) •types of rock (1) •law of superposition (2) •tectonic plates/faults (3) 	10	8.E.2	8.E.2.1 8.E.2.2	8th grade Unit A Ch. 1-2
Evolution and Genetics: <ul style="list-style-type: none"> •geologic time scale (2) •evidence that supports change over time (2) •fossils (2) •biological adaptations/extinction (2) •biological classification (2) •adaptation/genetic variation (5) 	15	8.L.4	8.L.4.1 8.L.4.2	8th grade Unit A Ch.1-2 Unit B Ch. 1-2
Energy Conservation and Transfer: <ul style="list-style-type: none"> •Environmental Consequences (3) •Renewable vs. Non-renewable (3) 	6	8.P.2	8.P.2.1 8.P.2.2	8th grade Unit A Ch. 3
EOG Review	5	n/a	n/a	n/a
EOG/retakes/Finals	16	n/a	n/a	n/a